

# NOVEL PROTEIN KINASE MOLECULES AND USES THEREFOR

## Abstract of the Disclosure

The invention provides isolated nucleic acids molecules, designated CSAPK  
5 nucleic acid molecules, which encode novel protein kinases. The invention also provides  
antisense nucleic acid molecules, recombinant expression vectors containing CSAPK  
nucleic acid molecules, host cells into which the expression vectors have been introduced,  
and nonhuman transgenic animals in which a CSAPK gene has been introduced or  
disrupted. The invention still further provides isolated CSAPK proteins, fusion proteins,  
10 antigenic peptides and anti-CSAPK antibodies. Diagnostic, screening, and therapeutic  
methods utilizing compositions of the invention are also provided.